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PTO/SB/01 (11.00)  
Approved for use through 10/31/2002. OMB 0651-0032  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
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# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	BP3103
First Inventor	Shahla Khorram
Title	LOW LOSS DIVERSITY ANTENNA T/R SWITCH
Express Mail Label No.	EL 979645821US

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

## ADDRESS TO:

Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

- ☒ Fee Transmittal Form (e.g. PTO/SB/17)  
(submit an original and a duplicate for fee processing)
  - ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
  - ☒ Specification [Total Pages (preferred arrangement set forth below)
    - Descriptive title of the invention
    - Cross Reference to Related Applications
    - Statement Regarding Fed sponsored R&D
    - Reference to sequence listing, a table, or a computer program listing appendix
    - Background of the Invention
    - Brief Summary of the Invention
    - Brief Description of the Drawings (if filed)
    - Detailed Description
    - Claim(s)
    - Abstract of the Disclosure
  - ☒ Drawing(s) (35 U.S.C. 113) [Total Pages   - Oath or Declaration [Total Pages   - ☒ Newly executed (original or copy)  
Copy from a prior application (37 CFR 1.63 (d))
  - ☐ (for continuation/divisional with Box 18 completed)
    - ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- ☐ Application Data Sheet. See 37 CFR 1.76

- ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
- Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - ☐ Computer Readable Form (CRF)
  - Specification Sequence Listing on:
    - ☐ CD-ROM or CD-R (2 copies); or
    - ☐ paper
  - ☐ Statements verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

- ☒ Assignment Papers (cover sheet & documents(s))
- ☒ 37 CFR 3.73(b) Statement (when there is an assignee) ☒ Power of Attorney
- ☐ English Translation Document (if applicable)
- ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
- ☐ Preliminary Amendment
- ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
- ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
- ☐ Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
- ☐ Other: \_\_\_\_\_

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No: \_\_\_\_\_

Prior application information:

Examiner: \_\_\_\_\_


Group Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 19. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label  or ☐ Correspondence address below  
insert customer no. or attach bar code label here

Name	Timothy W. Markison				
Address	P.O. Box 160727				
City	Austin	State	TX	Zip Code	78716-0727
Country	USA	Telephone	(512) 342-0612	FAX	(512) 342-1674

Name (Print/Type)	Timothy W. Markison	Registration No. (Atty/Agent)	33,534
Signature		Date	12/03/03

SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

17497 U.S. PTO  
10/727380  
120403

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PTO/SB/17 (11\_00)

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**FEE TRANSMITTAL  
for FY 2001**

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$ ) \$896.00

**Complete if Known**

Application Number	
Filing Date	
First Named Inventor	Shahla Khorram
Examiner Name	
Group Art Unit	
Atty Docket No.	BP3103

**METHOD OF PAYMENT**

- 1.
- ☐
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit  
Account  
Number

50-2126

Deposit  
Account  
Name

- ☒
- Charge Any Additional Fee Required
- 
- Under 37 CFR 1.16 and 1.17

- ☐
- Applicant claims small entity status.
- 
- See 37 CFR 1.27

- 2.
- ☒
- Payment Enclosed:

- ☒
- Check
- ☐
- Credit card
- ☐
- Money Order
- ☐
- Other

**FEE CALCULATION****1. BASIC FILING FEE**

Fee Description

Utility filing fee

Design filing fee

Plant filing fee

Reissue filing fee

Provisional filing fee

Fee Paid

770.00

SUBTOTAL (1) (\$ ) \$770.00

**2. EXTRA CLAIM FEES**

Fee From Below

Extra Claims

Fee Paid

Total Claims

14

-20\*\*

-6

x

18

=

0.00

Independent

Claims

4

-3\*\*

1

x

86

=

86.00

Multiple Dependent

=

Fee Description

Claims in excess of 20

Independent claims in excess of 3

\*\*Reissue independent claims  
over original patent\*\*Reissue claims in excess of 20  
and over original patent

SUBTOTAL (2) (\$ ) 86.00

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3.. ADDITIONAL FEES****Fee Description**

Surcharge-late filing fee or oath

Surcharge- late provisional filing fee or  
or cover sheet

Non-english specifications

For filing a request for ex parte reexamination

Requesting publication of SIR prior to  
Examiner actionRequesting publication of SIR after  
Examiner action

Extension for reply within first month

Extension for reply within second month

Extension for reply within third month

Extension for reply within fourth month

Extension for reply within fifth month

Notice of Appeal

Filing a brief in support of appeal

Request for oral hearing

Petition to institute a public use proceeding

Petition to revive - unavoidable

Petition to revive unintentional

Utility Issue Fee (or reissue)

Design Issue Fee

Plant Issue Fee

Petitions to the Commissioner

Processing fee under 37 CFR 1.17(q)

Submissions of Information Disclosure Stmt

Recording each patent assignment per  
property (times number of properties)

\$40.00

Filing a submission after final rejection  
(37 CFR 1.129(a))For each additional invention to be  
examined (37 CFR 1.129(b))

Request for Continued Examination (RCE)

Request for expedited Examination of design applicat

Other fee (specify)

Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

\$40.00

**SUBMITTED BY**

Complete (if applicable)

Name (Print Type)

Timothy W. Markison

Registration No.  
(Attorney Agent)

33,534

Telephone

(512) 342-0612

Signature



Date

12/03/03

SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

120403

05009 U.S. PTO

**Certificate Under 37 CFR 3.73(b)**

Applicants: Shahla Khorram

Entitled: **LOW LOSS DIVERSITY ANTENNA T/R SWITCH**

Application No.

Filing Date:

**Broadcom Corporation**

(Name of Assignee)

**a, California Corporation**

(Type of Assignee)

states that it is :

1. ☒ the assignee of the entire right, title, and interest; or  
2. ☐ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either :

- A. ☒ An Assignment for the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title for the inventor(s) of the patent application/patent identified above to the current assignee as shown below:

1. From \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: \_\_\_\_\_

Name: **Dee Henderson**Title: **Manager, Intellectual Property Portfolio**Signature: 



BROADCOM CORPORATION  
16215 Alton Parkway  
Irvine, California 92618

Phone: 949-450-8700  
Fax: 949-450-8710

May 20, 2003

To whom it may concern:

I, Henry Samueli, hereby authorize Dee Henderson, Intellectual Property Portfolio Manager, to execute documents relating to US and foreign patent and trademark matters on behalf of Broadcom Corporation and/or its subsidiaries.

A handwritten signature in cursive script, appearing to read 'H Samueli', is written over a horizontal line.

Henry Samueli, Ph.D.  
Chief Technical Officer and Co-Chairman